

ABSTRACT

DIRECT CELL TARGET ANALYSIS

Disclosed herein are Direct Cell Target Analysis ("DCTA") molecules and
5 Direct Cell Target ("DCT") methods for directly targeting and acting upon
biomolecules. These methods and molecules can be used with specific cells within
complex, heterogeneous tissue such that target biomolecules can be procured for
subsequent analysis or directly analyzed without the need for physical separation of the
biomolecules from other cells or cell components in the population. In general, the
10 methods involve use of a fusion molecule having a first moiety to identify and localize
target cells within a tissue sample, and a second moiety to generate detectable products
within the target cells that may be detected and subsequently analyzed, and optionally
isolated.